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Date of Deposit: December 10, 2003



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Attorney Docket No.: 24334-003 NATL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Schrepfer, et al.  
SERIAL NUMBER: 10/656,997 EXAMINER : Not Yet Assigned  
FILING DATE: September 5, 2003 ART UNIT : Not Yet Assigned  
FOR: Impedance Spectroscopy Based Systems and Methods

MAIL STOP IDS  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement;
2. Modified Form 1449/PTO;
3. Copies of cited references as indicated; and
4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

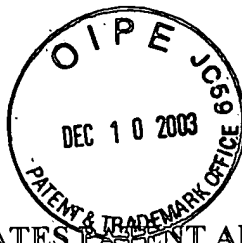
The Commissioner is authorized to charge any fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No.24334-003 NATL. A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

C. Eric Schulman, Esq. (Reg. No. 43,350)  
Attorneys for Applicants  
MINTZ, LEVIN, COHN, FERRIS,  
GLOVSKY and POPEO, P.C.  
One Financial Center  
Boston, Massachusetts 02111  
Tel: (617) 542-6000  
Fax: (617) 542-2241  
Customer No. 30623

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• INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449, as well as copies of the listed documents.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action based on the merits in the above-identified case. Accordingly, no fee or certification is believed required.

It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

APPLICANTS: Schrepfer, et al.  
U.S.S.N.: 10/656,997

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Please charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 24334-003 NATL.

Respectfully submitted,



C. Eric Schulman, Esq. (Reg. No. 43,350)  
Attorneys for Applicants  
MINTZ, LEVIN, COHN, FERRIS,  
GLOVSKY and POPEO, P.C.  
One Financial Center  
Boston, Massachusetts 02111  
Tel: (617) 542-6000  
Fax: (617) 542-2241  
Customer No. 30623

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PTO/SB (12-97)

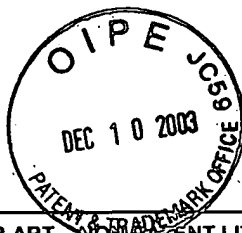
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Modified Form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Application Number</b>	10/656,997
	<b>Filing Date</b>	September 5, 2003
	<b>First Named Inventor</b>	Schrepfer et al.
	<b>Group Art Unit</b>	Not Yet Assigned
	<b>Examiner Name</b>	Not Yet Assigned
	<b>Attorney Docket Number</b>	24334-003 NATL

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	*A1	4,509,531	4/9/85	Ward	374	142	7/28/82
	*A2	5,792,668	8/11/98	Fuller, et al.	436	149	4/15/96
	*A3	5,508,203	4/16/96	Fuller, et al.	436	149	8/6/93
	*A4	6,356,776	3/12/02	Berner, et al.	600	347	8/16/00
	A5	4,679,426	7/14/87	Fuller et al	73	53	
	A6	4,765,179	8/23/88	Fuller et al.	73	53	
	A7	5,109,855	5/5/92	Günter	128	653.1	
	A8	5,804,967	9/8/98	Miller et al	324	314	
	A9	5,890,489	4/6/99	Elden	128	898	

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office	Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	No
	*B1	EP	0298441	Handelsgesellschaft Fur Medizin Und Technik Mit Beschränkter Haftung	1/11/89		X
	*B2	EP	0309085	Fisher Scientific Company	3/29/89		
	*B3	WO	00/43759	The University of Liverpool	7/27/00		
	*B4	WO	85/04481	Public Health Laboratory Service Board	10/10/85		
	*B5	WO	98/38904	Optel Instruments Limited (Abstract Only)	11/11/98		
	*B6	WO	01/47415	Pindi Products, Inc. (Abstract Only)	7/5/01		
	*B7	WO	00/09996	Solid State Farms, Inc. (Abstract Only)	2/24/00		
	*B8	WO	01/26538	Süstrunk, Anita	4/19/01		
	B9	WO	99/44495	CONARMA AB	10/9/99		
	B10	WO	99/39627	Dermal Therapy	12/8/99		
	B11	WO	98/04190	DTR Dermal Therapy	5/2/98		
	B12	WO	97/39341	Solid State Farms, Inc.	23/10/97		
	B13	WO	95/04496	Solid State Farms, Inc.	16/2/95		



OTHER PRIOR ART - NON-REFERENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	*C1	International Search report for PCT IB 01/00334, mailed November, 21 2001.
	*C2	Katz, Murray, A. (1973). "Hyperglycemia-Induced Hyponatremia Calculation of Expected Serum Sodium Depression" <i>The New England Journal of Medicine</i> 289(14):843-844.
	*C3	Shalwitz, et al. (1991). "Effect of Hyperglycemia on Plasma Sodium and Potassium Concentration Revisited" <i>Clinical Chemistry</i> 37(2):293-294.
	*C4	Bartok, et al. "Validation of Bioelectric Impedance Spectroscopy for Body Water Compartment Modeling in Simulated Microgravity"
	*C5	"Tumor Spheroid-Sensor" <i>Fraunhofer/Institut Biomedizinische Technik</i>
	*C6	Smith, Geoff (2001). "Dielectric Spectroscopy" <a href="http://www.appsci.dmu.ac.uk/gsmith/Research/smith_ds1.htm">http://www.appsci.dmu.ac.uk/gsmith/Research/smith_ds1.htm</a> (Printed on 11/15/01).
	*C7	Naschansky, Kristen M. (2001). "Rapid Detection of Listeria Monocytogenes Employing Immunomagnetic Separation and Electrical Impedance Spectroscopy" <i>Food Safety Engineering Project/Rapid Detection of L. monocytogenes</i> : <a href="http://foodsafety.agad.purdue.edu/research/gradprojects/naschansky.shtml">http://foodsafety.agad.purdue.edu/research/gradprojects/naschansky.shtml</a> (Printed on 11/15/01).
	*C8	"FDA Panel Recommends Approval of Watch-Like Glucose Monitor" (1999). <a href="http://www.helioshealth.com/cgi-bin/news/news.cgi?59">http://www.helioshealth.com/cgi-bin/news/news.cgi?59</a> (Printed on 4/25/02).
	*C9	Selingo, Jeffrey (2001). "Giving Diabetics (and Their Sore Fingers) a Break" <i>The New York Times</i> July 5, 2001 (Thursday):E5.
	*C10	"Non-invasive Blood Glucose Monitoring" <i>Pindi Products Inc./</i> <a href="http://www.google.com/search?q=cache:wLfLsc5ZvcY:www.pindi.com/nibgm.html+pindi...">http://www.google.com/search?q=cache:wLfLsc5ZvcY:www.pindi.com/nibgm.html+pindi...</a> (Printed on 6/22/01).
	*C11	"Glucose Detector" <i>Pindi Products, Inc./</i> <a href="http://www.google.com/search?q=cache:rls86NFXUZk:www.pindi.com/research.html=pindi...">http://www.google.com/search?q=cache:rls86NFXUZk:www.pindi.com/research.html=pindi...</a> (Printed on 6/22/01).
	*C12	Mendosa, Rick (2001). "Part 14: Blood Glucose Meters" <i>On-line Diabetes Resources/</i> <a href="http://www.mendosa.com/meters.htm">http://www.mendosa.com/meters.htm</a> (Printed 11/5/01).

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 09/980,661, filed November 15, 2001, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.